

**WHAT IS CLAIMED IS:**

1           1.       A method for surveillance comprising:  
 2       capturing a plurality of still frames;  
 3       / generating, from said plurality of still frames, a sequence of digital image  
 4       arrays comprising a full frame and a plurality of differential frames;  
 5       transmitting said sequence to a camera coordinator;  
 6       / determining, using said sequence, whether an incident is associated with  
 7       one or more frames in said sequence;  
 8       transmitting said sequence to an image server;  
 9       storing said sequence at said image server; and  
 10       / providing said sequence to one or more clients for viewing by a user.

1           2.       The method according to claim 1 wherein said sequence stored at  
 2       said image server is stored in a format designed for still image display on a client  
 3       browser.

1           3.       The method according to claim 1 wherein said sequence stored at  
 2       said image server is stored in a format allowing for a pixel to be encoded as a transparent  
 3       pixel.

1           4.       The method according to claim 1 wherein said sequence stored at  
 2       said image server comprises a full frame and one or more subsequent differential frames  
 3       wherein pixels in a differential frame with values within a threshold of corresponding  
 4       pixels in a preceding frame are set to transparent.

1           5.       The method according to claim 1 wherein said generating creates a  
 2       sequence of full and differential frames in a format designed for still image display on a  
 3       client browser and allowing for a pixel to be encoded as a transparent pixel.

1           6.       The method according to claim 5 wherein said sequence is  
 2       transmitted to said camera coordinator, stored at said camera coordinator, transmitted to  
 3       said image server, stored at said image server, and viewed by a client all using an image  
 4       encoding format for still image display on a client browser and allowing for a pixel to be  
 5       encoded as a transparent pixel.

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1 7. The method according to claim 2 wherein said format is the PNG  
2 format.

1 8. The method according to claim 2 wherein said format is the GIF  
2 format.

1 9. The method according to claim 1 wherein said deriving comprises  
2 computing a percentage value for a differential frame indicating a calculated percentage  
3 change between said differential frame and a preceding frame.

1 10. The method according to claim 1 wherein said determining  
2 comprises comparing a single still frame to a preceding frame.

1 11. The method according to claim 1 wherein said deriving includes  
2 computing a percentage value for a differential frame indicating a calculated percentage  
3 change between said differential frame and a preceding frame.

1 12. The method according to claim 1 wherein said clients comprise off-  
2 the-shelf internet browser software.

1 13. The method according to claim 1 further comprising:  
2 storing said sequence at said camera coordinator.

1 14. The method according to claim 1 wherein said storing comprises  
2 storage of sequences for which incidents were detected for later transmission as requested  
3 by an image server.

1 15. The method according to claim 1 wherein said image server  
2 includes a network interface with a high bandwidth capacity allowing for multiple  
3 simultaneous client connections.

1 16. A method for surveillance comprising:  
2 capturing a plurality of still frames as arrays of digital data;  
3 designating a frame in said plurality as a full frame;

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7            for a frame subsequent to said full frame, computing a percentage  
8   difference indicating a degree of change of pixels from a preceding frame;

11 determining that an incident has occurred using rules-based logic to  
12 analyze data received from said frame grabber;

14 transmitting frame data to an image server; and

1                    17. A method for capturing, analyzing, and presenting image data from  
2   one or more digital image capture devices comprising:

4           producing a plurality of sequences, said sequences comprising a full frame  
5 followed by one or more differential frames wherein pixels in said differential frames are  
6 set to transparent when they have a value within a threshold of a value of corresponding  
7 pixels in a preceding frame;

9 storing said plurality of sequences; and

10                   presenting one or more sequences to a client viewer in response to a  
11 viewer's request or when an incident is associated with a sequence.

1                    18. The method according to claim 17 wherein said determining  
2 comprises computing a percentage of pixels that have changed in one frame from one or  
3 more preceding frames.

1 19. The method according to claim 17 wherein said sequence stored at  
2 said image server is stored in a format designed for still image display on a client  
3 browser.

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